



*SUBSTITUTE SPECIFICATION*

**5 TITLE OF THE INVENTION:**

Nectarine Tree 'S 6816'

**CROSS REFERENCE TO RELATED APPLICATIONS:**

None

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**PRIORITY CLAIM:**

This application claims priority of U.S. Provisional patent application Ser. No. 60/404,217 filed August 15, 2002.

**15 STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR  
DEVELOPMENT:**

None

**LATIN NAME OF THE GENUS AND SPECIES OF THE PLANT CLAIMED:**

20 *Prunus persica* L. Batsch.

**VARIETY DENOMINATION:**

'S 6816'

## **BACKGROUND OF THE INVENTION**

The new nectarine tree 'S 6816' was developed by the Institut National de la Recherche Agronomique (INRA) at Angers, France, as part of a controlled breeding program. 'S 6816' was asexually propagated by budding at Angers, France, and has been observed to remain true to type  
5 over successive asexually propagated generations.

## **BRIEF SUMMARY OF THE INVENTION**

'S 6816' was selected for its suitability as a commercial nectarine tree cultivar. Fruit of the 'S 6816' cultivar matures in late July in central Washington state, and is notable for its  
10 aromatic and sweet yellow flesh. This variety is distinguishable over related variety 'S 6817' (U.S. Patent Application Ser. No. 10/642,441) by its earlier maturity date and smaller and sweeter fruit.

## **BRIEF DESCRIPTION OF THE PHOTOGRAPHS:**

- 15 FIG. 1 shows branches and blossoms of the new cultivar;  
FIG. 2 shows a tree of the new cultivar;  
FIG. 3 shows leaves of the new cultivar;  
FIG. 4 shows a leaf, a stone, and a portion of a fruit of the new cultivar;  
FIG. 5 shows fruit of the new cultivar; and  
20 FIG. 6 shows a sectioned fruit of the new cultivar.

## **DETAILED BOTANICAL DESCRIPTION OF THE VARIETY:**

The following is a detailed botanical description of ‘S 6816,’ a new and distinct nectarine tree, based on observations made during the 2004 growing season, of specimens planted at Parker, Washington, USA, in 1999. The described trees were grown on ‘Lovell’ (not patented) rootstock. All colors are described according to the Royal Horticultural Society Color Chart. It should be understood that the botanical and analytical characteristics described will vary somewhat depending upon cultural practices and climatic conditions, and can vary with location and season. Quantified measurements are expressed as an average of measurements taken from a number of individual plants of the new variety. The measurements of any individual plant, or any group of plants, of the new variety may vary from the stated average.

#### Tree

Size	Large, width 2.2 m wide, height 3.4 m
Vigor	Strong
Habit	Upright
Trunk	Diameter 31 cm at soil level; very rough; overcolor grey 201D; undercolor grey 175A; lenticels prominent, 0.3 to 0.5 cm, yellow 159A
Branches	Smooth, greyed red 181A, internode length 3.1 to 3.8 cm, lateral branch diameter 1.8 cm, length 46.2 cm (previous season growth)

#### Leaves

Young shoot - length of stipule	Medium
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	Size	Length 10.5 cm; 4.0 cm
	Ratio length to width	Medium
	Shape	Lanceolate, base rounded, apex acuminate, recurved, cross section concave
5	Color	Upper surface green 146A, lower surface green N144A, upper venation color green 154D
	Texture	Smooth
	Margin	Serrate to serrulate
<b>Petiole</b>		
10	Size	Length 1.5 cm, diameter 0.2 cm
	Color	Green 154D
	Glands	Present, usually 2, reniform
<b>Flowers</b>		
15	Bud	Length 0.9 to 1.1 cm, round, smooth, hardy, red-purple 59A, tip pink 62A
	Bud burst	March 18 at Parker, Washington
	Bloom period	March 18 to April 7 at Parker, Washington
	Flower type	Showy, fragrant, 1 to 4 per cluster
20	Petals	Quantity 5; length 1.8 to 2.1 cm, width 1.3 to 1.5 cm; margins ruffled, overlapping; shape obovate to rotund; color pink 69A
	Sepals	Length 0.5 to 0.6 cm; width 0.4 to 0.5 cm; color red-purple

		59A
	Flower size	Diameter 3.5 to 3.7 cm
5	Reproductive organs	Staymen white 155D, quantity 39, length 1.0 to 1.3 cm; anther length 0.5 cm, brown 199A; filament 0.9 to 1.2 cm; pistil 0.9 to 1.0 cm, smooth, yellow 3A
	Pollen	Scarce, yellow 1A
	<b>Fruit</b>	
	Size	Small, diameter 70 mm, height 4.0 cm
	Shape (ventral view)	Broad oblate
10	Shape of pistil end	Weakly depressed
	Symmetry	Symmetric
	Prominence of suture	Weak
	Depth of stalk cavity	Shallow, 0.5 cm
	Width of stalk cavity	Broad, 2.8 cm
15	Skin	Color: ground color orange-red 34C, over color red-purple 59A; thin, smooth, tenacious
	Pubescence	Absent
	Firmness of flesh	Soft
	Ground color of flesh	Yellow-orange 17C
20	Anthocyanin coloration directly under skin	Absent or very weakly expressed
	Anthocyanin coloration of flesh	Absent or very weakly expressed
	Anthocyanin coloration around stone	Weakly expressed

Texture of flesh	Not fibrous
Sweetness	Very sweet, 12° Brix
Acidity	Low

**Stone**

5	Size	Small, diameter 3.0 cm
	Shape in lateral view	Oblate
	Color	Red-purple 59C
	Relief of surface	Small pits, ridges
	Tendency of splitting at peak harvest	Absent or very low
10	Adherence to flesh	Absent (freestone)

**Time of maturity for consumption** Early, late July in Parker, Washington

**Tendency to preharvest drop** Absent or very weak

**Resistance to diseases and pests** None observed

**Heat and cold tolerance** Tolerant in area tested (USDA Zone 6)